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23859 7590 01/16/2007

NEEDLE & ROSENBERG, P.C.
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 ATLANTA, GA 30309-3915

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Anthony J. DeVale, Jr. (Depositor's name)
 (Signature)
 April 11, 2007 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,240	08/27/2003	Andreas Muhs	19232.0011U1	6388

TITLE OF INVENTION: CRYSTAL-GROWING FURNACE, IN PARTICULAR A VERTICAL BRIDGMAN CRYSTAL-GROWING FURNACE OR A VERTICAL GRADIENT FREEZE CRYSTAL-GROWING FURNACE HAVING A JACKET HEATER AND A METHOD OF REGULATING THE HEAT OUTPUT OF THE JACKET HEATER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	04/16/2007

EXAMINER	ART UNIT	CLASS-SUBCLASS
KUNEMUND, ROBERT M	1722	117-081000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
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2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. _____
 Needle & Rosenberg, P.C.
 3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Crystal Growing System GmbH

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Hanau, Germany

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☒ Advance Order - # of Copies 10

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- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 14-0629 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature

(Signature)

Date April 11, 2007

Typed or printed name Anthony J. DeVale, Jr.

Registration No. 50,349

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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04/11/2007	00003992	4	1501	\$1,400.00	04/11/2007
04/11/2007	00003993	4	1504	\$300.00	04/11/2007
04/11/2007	00003994	4	8001	\$30.00	04/11/2007